

## APPENDIX

### 1. CONTRACTIONS

AC&W	Aircraft Control and Warning System	KM	Kilometer(s)
ACCRY	Accuracy	KT	Knot(s)
ACFT	Aircraft	LRDR	Land Radar
ACR	Aircraft Radar	LVL	Level
AIREP	Aircraft Weather Report(s) (Commercial and Military)	M/SEC	Meters per Second
ANT	Antenna	MAX	Maximum
ARWO	Airborne Weather Reconnaissance Officer	MB	Millibar(s)
ATT	Attenuation	MET	Meteorological
AVG	Average	MH50	MOHATT 500 mb Prog
AWN	Automated Weather Network	MH70	MOHATT 700 mb Prog
BRG	Bearing	MIN	Minimum
CAT	Category	MOHATT	Modified Hatrack
CIRC	Circular	MSN	Mission
CLD	Cloud	NAV	Navigational
CLSD	Closed	NEDN	Naval Environmental Data Network
CNTR	Center	NEDS	Naval Environmental Display Station
CONC	Concentric	NET	Near Equatorial Trough
CONF	Confidence (number)	NM	Nautical Mile(s)
DEG	Degree(s)	OBS	Observation
D/DIA	Diameter	P	Penetration (by aircraft)
DIR	Direction	PC	Percent (%)
DMSP	Defense Meteorological Satellite Program	PCN	Position Code Number
ELEV	Elevation	PSBL	Possible
ELIP	Elliptical	PTLY	Partly
FLT	Flight	QUAD	Quadrant
GOES	Geostationary Operational Environmental Satellite	RECON	Reconnaissance
HATRACK	Hurricane and Typhoon Tracking (numerical forecast)	RNG	Range
HGT	Height	RPD	Rapid
HPAC	Mean of XTRP and Climatology	SAT	Satellite
HUR	Hurricane	SFC	Surface
HR(S)	Hour(s)	SLP (MSLP)	Sea Level Pressure (Minimum Sea Level Pressure)
HVY	Heavy	SMS	Synchronous Meteorological Satellite
IR	Infrared	SPOL	Spiral Overlay
		SRDR	Ship Radar

SRP	Selective Reconnaissance Program
STNRY	Stationary
STY	Super Typhoon
TC	Tropical Cyclone
TCARC	Tropical Cyclone Aircraft Reconnaissance Coordinator
TCM	Tropical Cyclone Model
TD	Tropical Depression
TI	Temperature Inside Eye
TO	Temperature Outside Eye
TS	Tropical Storm
TY	Typhoon
TUTT	Tropical Upper Tropospheric Trough
VEL	Velocity
VIS	Visual
VSBL	Visible
WESTPAC	Western Pacific
WMO	World Meteorological Organization
WRS	Weather Reconnaissance Squadron
XTRP	Extrapolation
Z	Zulu Time (Greenwich mean time)

## 2. DEFINITIONS

**BEST TRACK**-A subjectively smoothed path, versus a precise and very erratic fix-to-fix path, used to represent tropical cyclone movement.

**CYCLONE**-A closed atmospheric circulation rotating about an area of low pressure (counterclockwise in the northern hemisphere).

**EPHEMERIS**-Position of a body (satellite) in space as a function of time. When no geographical reference is available for gridding satellite imagery, then only ephemeris gridding is possible which is solely based on the theoretical satellite position and is susceptible to errors from satellite pitch, orbit eccentricity and the non-spherical earth.

**EXTRATROPICAL**-A term used in warnings and tropical summaries to indicate that a cyclone has lost its "tropical characteristics". The term implies both poleward displacement from the tropics and the conversion of the cyclone's primary energy sources from release of latent heat of condensation to baroclinic processes. The term carries no implications as to strength or size.

**EYE/CENTER**-Refers to the roughly circular central area of a well developed tropical

cyclone usually characterized by comparatively light winds and fair weather. If more than half surrounded by wall cloud, the word "eye" is used, otherwise the area is referred to as a center.

**MAXIMUM SUSTAINED WIND**-Maximum surface wind speed averaged over a 1-minute period of time. Peak gusts over water average 20 to 25 percent higher than sustained wind.

**RECURVATURE**-The turning of a tropical storm from an initial path toward the west or northwest to the north or northeast.

**SIGNIFICANT TROPICAL CYCLONE**-A tropical cyclone becomes "significant" with the issuance of the first numbered warning by the responsible warning agency.

**SUPER TYPHOON/HURRICANE**-A typhoon/hurricane in which the maximum sustained surface wind (1-minute mean) is 130 kt or greater.

**TROPICAL CYCLONE**-A nonfrontal low pressure system of synoptic scale developing over tropical or subtropical waters and having a definite organized circulation.

**TROPICAL CYCLONE AIRCRAFT RECONNAISSANCE COORDINATOR**-A CINCPACAF representative designated to levy tropical cyclone aircraft weather reconnaissance requirements on reconnaissance units within a designated area of the PACOM and to function as coordinator between CINCPACAF, aircraft weather reconnaissance units, and the appropriate typhoon/hurricane warning center.

**TROPICAL DEPRESSION**-A tropical cyclone in which the maximum sustained surface wind (1-minute mean) is 33 kt or less.

**TROPICAL DISTURBANCE**-A discrete system of apparently organized convection--generally 100 to 300 miles in diameter--originating in the tropics or subtropics, having a non-frontal migratory character, and having maintained its identity for 24 hours or more. It may or may not be associated with a detectable perturbation of the wind field. As such, it is the basic generic designation which, in successive stages of intensification, may be classified as a tropical depression, tropical storm or typhoon.

**TROPICAL STORM**-A tropical cyclone with maximum sustained surface winds (1-minute mean) in the range of 34 to 63 kt, inclusive.

**TROPICAL UPPER TROPOSPHERIC TROUGH (TUTT)**- "A dominant climatological system, and a daily synoptic feature, of the summer season over the tropical North Atlantic, North Pacific and South Pacific Oceans," from Sadler, James C., Feb. 1976: Tropical Cyclone Initiation by the Tropical Upper Tropospheric Trough. (NAVENVPREDRSCHFAC Technical Paper No. 2-76)

**TYPHOON/HURRICANE**-A tropical cyclone in which the maximum sustained surface wind (1-minute mean) is 64 kt or greater.

**WALL CLOUD**-An organized band of cumuli-form clouds immediately surrounding the central area of tropical cyclone. Wall clouds may entirely enclose the eye or only partially surround the center.

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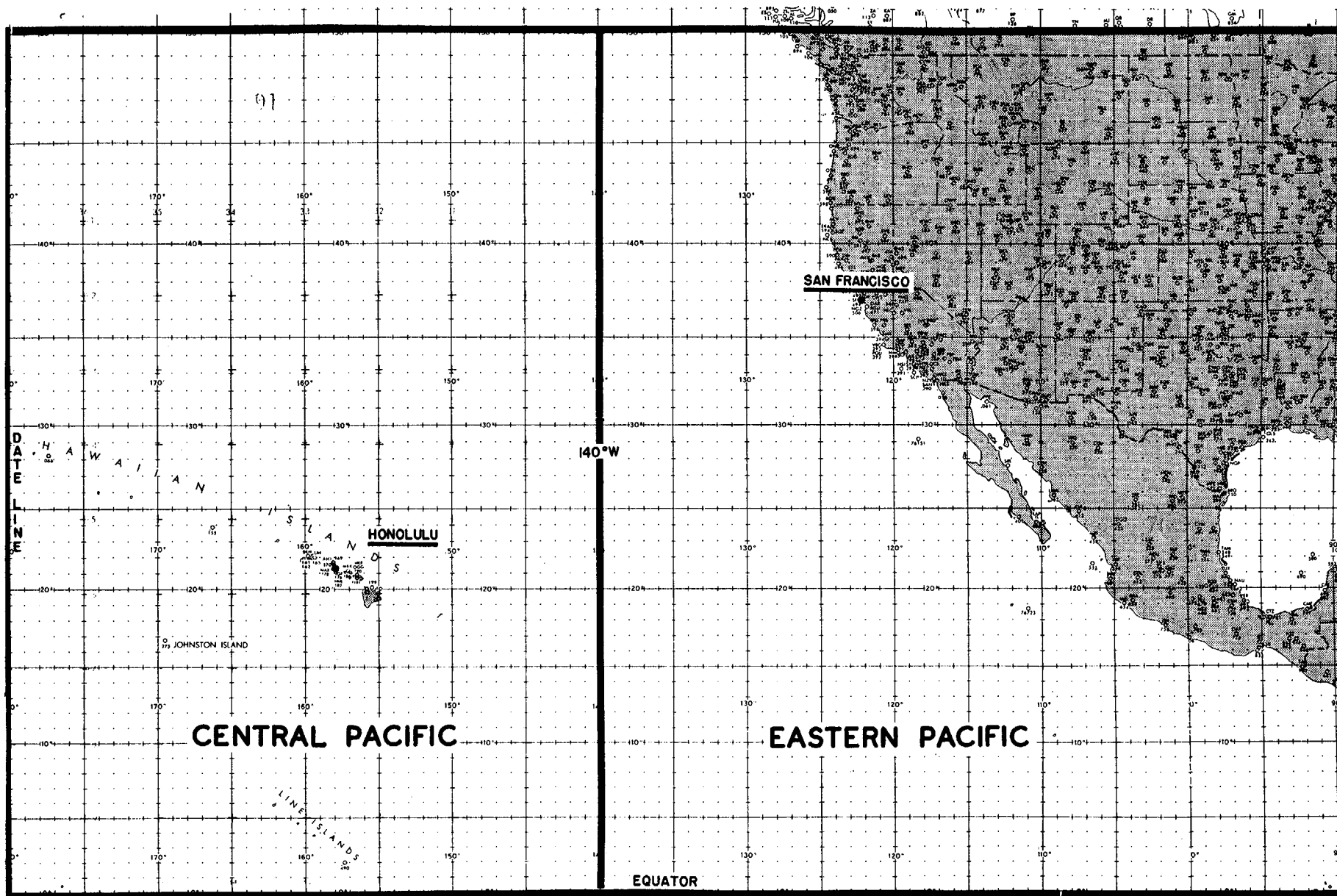
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